Title: **JP10237362A2: ELECTRODEPOSITION COATING MATERIAL AND ELECTRODEPOSITION COATING**

Derwent Title: Electrodeposition coating - contains an aqueous colloidal solution dispersing inorganic oxide colloidal particles containing an antimicrobial metal component and an anionic electrodeposition coating [Derwent Record]

Country: **JP** Japan
Kind: **A**

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Abstract: PROBLEM TO BE SOLVED: To obtain an electrodeposition coating material capable of imparting a long-term excellent antimicrobial properties to a coating surface of a conductor material, and further forming a coating membrane excellent in appearance and adhesion, and useful for antimicrobial coating of a building material, fittings, etc., by adding an aqueous colloid solution of a specific antimicrobial inorganic oxide to a specified electrodeposition coating material.

SOLUTION: This electrodeposition coating material comprises (A) an aqueous colloid solution dispersing inorganic oxide colloid particles such as silica, alumina, titania and a composite oxide thereof, containing an antimicrobial metal component such as silver, copper and zinc [e.g. the one having ≤500nm average particle diameter and 0.05-25wt.% antimicrobial metal component content in terms of oxide] and (B) anion type electrodeposition coating material, and is regulated so that the ζ-potential of the colloid particles in the component A may be ≤-2mV within a pH range of 7.0-9.0 of the component A. The coating material preferably contains 0.1-20wt.% component B in the component A.

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